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**Committee on the Peaceful  
Uses of Outer Space****Information furnished in conformity with the Convention  
on Registration of Objects Launched into Outer Space****Note verbale dated 10 May 2021 from the Permanent Mission of  
New Zealand to the United Nations (Vienna) addressed to the  
Secretary-General**

The Permanent Mission of New Zealand to the United Nations (Vienna), in accordance with article IV of the Convention on Registration of Objects Launched into Outer Space (General Assembly resolution [3235 \(XXIX\)](#), annex), has the honour to transmit herewith information concerning objects launched into outer space from New Zealand during the period from January to March 2021 (see annex).<sup>1</sup>

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<sup>1</sup> The data on space objects referenced in the annex were entered into the Register of Objects Launched into Outer Space on 14 June 2021.



## Annex

### Information on space objects launched from New Zealand<sup>\*,\*\*</sup>

#### I. Objects registered by New Zealand

##### A. Objects launched by New Zealand during the period from 1 January to 31 March 2021

International designator	National designator	Name	Date and time of the launch (New Zealand time)	Other launching States	Basic orbital parameters				General function of the space object	Additional voluntary information		
					Nodal period (minutes)	Inclination (degrees)	Apogee (km)	Perigee (km)		Owner or operator	Launch vehicle	Website
2021-004B	NZ-2021-02	Electron kick stage rocket body	20 January 2021, 1926 hours	United States of America	101.61	90	1 213	457	Rocket body	Rocket Lab USA	Electron	www.rocketlabusa.com
2021-004C	NZ-2021-03	Electron rocket body	20 January 2021, 1926 hours	United States	96.2	89.99	939	214	Rocket body	Rocket Lab USA	Electron	www.rocketlabusa.com
2021-023F	NZ-2021-11	Electron rocket body	23 March 2021, 1030 hours	United States	87.65	45	533	295	Rocket body	Rocket Lab USA	Electron	www.rocketlabusa.com

##### B. Objects no longer in orbit

International designator	National designator	Name	Date and time of the launch (New Zealand time)	General function of the space object	Date of re-entry (UTC)
None					

##### C. Objects identified in a previous report that remain in orbit but are no longer operational

International designator	National designator	Name	Date of the launch (UTC)	General function of the space object	Date when space object was no longer functional (UTC)
None					

\* The data are reproduced in the form in which they were received.

\*\* See [www.space-track.org](http://www.space-track.org).

**D. Objects identified in a previous report that have been moved to a disposal orbit**

<i>International designator</i>	<i>National designator</i>	<i>Name</i>	<i>Date of the launch (UTC)</i>	<i>General function of the space object</i>	<i>Geostationary position (degrees East)</i>	<i>Date when space object was moved to a disposal orbit</i>	<i>Physical conditions when space object was moved to a disposal orbit (change in orbit, passivation and other measures recommended in space debris mitigation guidelines)</i>
None							

**E. Objects the registration or ownership of which has been transferred from New Zealand to another country**

<i>International designator</i>	<i>National designator</i>	<i>Name</i>	<i>Date of change in supervision (UTC)</i>	<i>Identity of the new owner or operator</i>	<i>Identity of the previous owner or operator</i>	<i>Previous orbital position</i>	<i>New orbital position</i>	<i>Change of function of the space object</i>
None								

**F. Objects the registration or ownership of which has been transferred to New Zealand**

<i>International designator</i>	<i>National designator</i>	<i>Name</i>	<i>Date of change in supervision (UTC)</i>	<i>Identity of the new owner or operator</i>	<i>Identity of the previous owner or operator</i>	<i>Previous orbital position</i>	<i>New orbital position</i>	<i>Change of function of the space object</i>
None								

**G. Objects the registration or ownership of which has been transferred from one country to another, excluding New Zealand**

<i>International designator</i>	<i>National designator</i>	<i>Name</i>	<i>Date of change in supervision (UTC)</i>	<i>Identity of the new owner or operator</i>	<i>Identity of the previous owner or operator</i>	<i>Previous orbital position</i>	<i>New orbital position</i>	<i>Change of function of the space object</i>
None								

**II. Revisions to previously reported information**

No revisions.

### III. Notification of space objects launched from New Zealand during the period from 1 January to 31 March 2021

The following space objects are not registered by New Zealand.

#### A. Objects launched by New Zealand

International designator	National designator	Name	Date and time of the launch (New Zealand)	Other launching States	Basic orbital parameters				General function of the space object	Additional voluntary information		
					Nodal period (minutes)	Inclination (degrees)	Apogee (km)	Perigee (km)		Owner or operator	Launch vehicle	Website
2021-004A	NZ-2021-01	GMS-T	20 January 2021, 1926 hours	Germany	109.37	90.01	1 201	1 195	Spectrum authorisation	OHB Cosmos	Electron	<a href="http://www.ohb-cosmos.de">www.ohb-cosmos.de</a>
2021-023A	NZ-2021-04	Veery-RL1	23 March 2021, 1030 hours	United States	95.61	45	557	539	Technology demonstration	Care Weather Technologies	Electron	<a href="http://careweather.com">careweather.com</a>
2021-023B	NZ-2021-05	Centauri-3 (Tyvak-0210)	23 March 2021, 1030 hours	Australia	95.7	45	557	548	Commercial data connectivity services	Fleet Space Technologies Ltd	Electron	<a href="http://fleetspace.com">fleetspace.com</a>
2021-023C	NZ-2021-06	M2-A	23 March 2021, 1030 hours	Australia	95.68	45	558	546	Technology demonstration	University of New South Wales	Electron	<a href="http://www.unsw.edu.au">www.unsw.edu.au</a>
2021-023D	NZ-2021-07	Myriota 7 (Tyvak-0152)	23 March 2021, 1030 hours	Australia	95.67	45.01	557	545	Technology demonstration and Internet of Things connectivity	Myriota Pty Ltd	Electron	<a href="http://myriota.com">myriota.com</a>
2021-023E	NZ-2021-08	Gunsmoke -J 1	23 March 2021, 1030 hours	United States	95.66	45	557	545	Technology demonstration	TriSept – Gunsmoke J	Electron	<a href="http://trisept.com">trisept.com</a>
2021-023G	NZ-2021-09	Global-9	23 March 2021, 1030 hours	United States	93.66	45	458	450	Remote sensing	BlackSky Global	Electron	<a href="http://www.blacksky.com">www.blacksky.com</a>
2021-023H	NZ-2021-10	Photon-02	23 March 2021, 1030 hours	United States	93.63	45	455	449	Technology demonstration and commercial satellite operations	Rocket Lab USA, Inc	Electron	<a href="http://www.rocketlabusa.com">www.rocketlabusa.com</a>

Note: Orbital parameters identified as at 3 May 2021 (source: [www.space-track.org](http://www.space-track.org)).

IV. Objects launched by New Zealand that are no longer in orbit

The following space objects are not registered by New Zealand.

<i>International designator</i>	<i>National designator</i>	<i>Name</i>	<i>Date and time of the launch (New Zealand time)</i>	<i>Other launching States</i>	<i>General function of the space object</i>	<i>Date of re-entry (UTC)</i>
None.						